



## INTEROFFICE CORRESPONDENCE

DATE: July 2, 1992

TO: D. R. Ferrier, Solar Ponds Project, Bldg. 750, X6456

FROM: K. D. Anderson, Radiological Engineering, Bldg. T690B, X5151

SUBJECT: FILTRATION REQUIREMENTS FOR SOLAR POND PROJECT - KDA-017-92

As per your request, Radiological Engineering has reviewed the radionuclide dose assessment for pondcrete processing of sludge and pond water from Solar Ponds 207 A&B and 207C, as provided by W. E. Osborne, Air Quality and Chemical Tracking Division. The Effective Dose Equivalent calculation was performed using AIDOS-PC and 40 CFR 60, Appendix D, as per Department of Energy (DOE) Order 5400.5, 'Radiation Protection of the Public and the Environment', Chapter II, Section 1b(1) and (2). The assumptions included in the calculation are sufficient to provide an assessment indicative of the operation.

The calculated dose assessment of 0.002 mrem/year for 207C and  $6.86 \times 10^{-7}$  mrem/year for Ponds 207A&B, signify the contributing dose equivalent to the General Public as a result of the operation does not exceed the established limit of DOE Order 5400.5. The single High Efficiency Particulate Air (HEPA) Filtration requirement for effluent of ventilation systems associated with the operation is sufficient to comply with DOE Order 6430.1A, 'General Design Criteria'.

Radiological Engineering will require additional dose assessments for the process to be initiated for the Pondcrete/Saltcrete Reprocessing Project.

Please contact me at my office for clarification or further assistance concerning this matter, Extension 5151, Digital Page 3296.

kda

cc:

G. M. Aldrich  
N. M. Daugherty  
E. F. Lombardi  
R. W. Norton  
W. E. Osborne

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